

**City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
March 2021**

Licence 2684 RRR	File # 1071.10	Final Effluent 24 Hour Composite							Final Effluent Grab Sample					
		Date	Raw Sewage Daily Flow ML	TSS	BOD5	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
				(mg/L)	(mg/L)	(mg/L)	(kg NH3-N/day)	(mg/L-P)	(mg/L-P)*	(mg/L-N)*	(°C)	(units)	MPN/100 mL	
1-Mar-21	118.2	13	14	7	4,929	1.20	3.1	51.1	12.8	6.92	<10	10		
2-Mar-21	159.3	18	23	8	5,639	1.37	3.0	51.2	13.3	6.78	60	30		
3-Mar-21	135.7	11	15	7	4,884	0.60	2.8	51.2	12.6	6.73	470	510		
4-Mar-21	173.8	31	35	16	6,516	1.10	2.7	51.5	13.8	6.79	210	260		
5-Mar-21	188.3	38	27	16	6,291	nr	2.6	51.4	12.8	6.72	420	260		
6-Mar-21	202.3	43	33	24	6,090	1.78	2.6	50.8	12.0	6.82	70	70		
7-Mar-21	218.1	44	31	20	5,584	1.49	2.5	49.9	11.2	6.70	1,050	880		
8-Mar-21	219.7	33	26	16	5,317	1.37	2.3	49.0	11.8	6.80	90	100		
9-Mar-21	281.1	42	25	17	5,509	1.41	2.2	47.8	9.6	7.02	>24,200	>24,200		
10-Mar-21	143.9	15	11	8	3,123	0.92	2.1	46.8	10.5	6.75	10	10		
11-Mar-21	139.4	35	17	10	4,655	2.42	2.1	46.5	11.0	6.85	40	20		
12-Mar-21	143.7	24	18	10	5,904	3.20	2.2	46.8	12.9	6.86	70	100		
13-Mar-21	132.8	29	25	11	5,672	3.78	2.2	47.0	13.8	6.82	10	20		
14-Mar-21	124.9	31	49	13	4,672	3.64	2.3	47.1	13.6	6.78	20	20		
15-Mar-21	129.5	29	32	13	5,140	4.15	2.4	47.0	13.9	6.72	10	30		
16-Mar-21	134.7	27	35	12	5,200	3.70	2.4	46.9	14.3	6.71	20	10		
17-Mar-21	148.8	23	nr	nr	5,953	3.43	2.5	46.9	14.5	6.76	50	40		
18-Mar-21	132.9	30	34	12	5,434	3.34	2.5	47.0	14.0	6.73	200	260		
19-Mar-21	154.9	31	26	12	6,213	3.39	2.6	47.0	14.6	6.88	40	50		
20-Mar-21	149.0	27	33	10	5,423	3.24	2.6	46.9	13.8	6.74	20	30		
21-Mar-21	158.1	23	32	11	5,646	3.22	2.7	46.6	13.5	6.73	130	170		
22-Mar-21	150.2	18	nr	nr	4,987	2.58	2.7	46.2	13.0	6.82	250	270		
23-Mar-21	145.2	23	nr	nr	5,371	3.06	2.8	45.8	13.3	6.78	30	40		
24-Mar-21	141.1	22	nr	nr	5,290	3.49	2.8	45.5	13.4	6.74	<10	20		
25-Mar-21	139.4	23	nr	nr	5,101	3.04	2.9	45.9	13.9	6.72	30	10		
26-Mar-21	199.2	28	nr	nr	6,096	2.84	3.0	45.8	13.6	6.78	>24,200	>24,200		
27-Mar-21	142.9	16	nr	nr	4,044	1.72	3.0	45.2	12.2	6.81	10	10		
28-Mar-21	138.8	22	22	10	5,095	2.29	3.1	44.7	13.0	6.82	60	20		
29-Mar-21	142.8	16	25	11	5,526	2.78	3.1	44.4	16.7	6.90	<10	10		
30-Mar-21	148.7	16	24	12	5,961	2.37	3.2	44.2	13.1	6.79	90	60		
31-Mar-21	140.3	18	31	10	5,431	2.74	3.2	44.1	13.8	6.81	110	60		
Max:	281.1													
Min:	118.2													
Average:	157.3	26	27	12	5,377	2.52			13.1	6.79				
Total Flow:	4,877.6													
Geo.Mean:											70	72		

Notes:

- (1) Effluent ammonia load based upon Raw Sewage flows and Final NH3-N concentrations
- (2) nr - not recorded or no result; na - not analyzed; ns - no sample
- (3) Where value is expressed as less than (<), the value is halved and used in the calculations
- (4) * = 30 day rolling average
- (5) Raw wastewater flows in excess of 400 ML/D will by-pass the secondary process and flows in excess of 675 ML/D will cause raw sewage to by-pass the plant